

What is claimed is:

- 5 1. An electrochemical device comprising:
an electrochemical cell having an anode, a cathode, and an ion exchange
membrane disposed in an engageable position between the anode and the cathode;
a clamping mechanism coupled to the anode and the cathode and allowing relative
movement of the anode and cathode between a disengaged position and an engaged
10 position providing ionic communication through the ion exchange membrane;
a cathodic electrocatalyst permanently formed onto the cathode.
- 15 2. The electrochemical device of claim 1, wherein the disengaged position provides
physical separation of the cathodic electrocatalyst from the ion exchange membrane.
3. The electrochemical device of claim 1, wherein the cathodic electrocatalyst and the
ion exchange membrane are physically separated during inactivity of the electrochemical
cell.
- 20 4. The electrochemical device of claim 1, further comprising:
means for delivering the unused portions of the ion exchange membrane into
alignment with the cathode by handling portions of the ion exchange membrane that
extend beyond the cathode while the anode and the cathode are disengaged.
- 25 5. The electrochemical device of claim 1, further comprising:
an anodic electrocatalyst permanently formed onto the anode.
6. A subassembly for an electrochemical cell comprising:
a carrier strip divided into segments;

an array of duplicate components for forming a part of the electrochemical cell having an active area, wherein each of the segments contain the array of duplicate components,

a cover sealed around each of the segments, wherein the duplicate components are completely sealed from the environment.

7. The subassembly of claim 6, wherein the duplicate components are selected from a proton exchange membrane, an anion exchange membrane, an anodic electrocatalyst, a cathodic electrocatalyst, a selectively rupturable water reservoir, an ozone indicator patch and combinations thereof.

8. The subassembly of claim 6, wherein the carrier strip is selected from a continuous ion exchange membrane, a hydrophobic material, and a screen.

9. The subassembly of claim 8, wherein the screen material is selected from a metal, a plastic, or combinations thereof.

10. The subassembly of claim 6, wherein the cover is sealed by means selected from adhesives or thermally welding.

11. The subassembly of claim 6, wherein the cover is peeled back to expose a fresh segment.

12. The subassembly of claim 7, wherein the indicator patch is dyed with an ozone sensitive dye selected from indigo dyes, color developing indicators, and combinations thereof.

13. An electrochemical device comprising:

an electrochemical cell having an anode, a cathode, and an ion exchange membrane disposed in an engageable position between the anode and the cathode;

a clamping mechanism coupled to the anode and the cathode and allowing relative movement of the anode and cathode between a disengaged position and an engaged position providing ionic communication through the ion exchange membrane;

a carrier strip divided into segments;

- 5 an array of duplicate components for forming a part of the electrochemical cell having an active area, wherein each of the segments contain the array of duplicate components; including a selectively rupturable water reservoir;
a power supply.

10 14. The electrochemical device of claim 13, wherein the power supply is a battery.

15 15. The electrochemical device of claim 13, wherein the duplicate components are selected from a proton exchange membrane, an anion exchange membrane, an anodic electrocatalyst, a cathodic electrocatalyst, a selectively rupturable water reservoir, an ozone indicator patch and combinations thereof.

16. A subassembly comprising:

a carrier strip divided into segments;

20 an array of duplicate electrocatalyst deposits upon the carrier strip, wherein the carrier strip may be peeled back to allow transfer of the electrocatalyst to a surface.

17. The subassembly of claim 16, wherein the surface is an ion exchange membrane.

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